

**THIN FLEXIBLE SHEET SORPTION MATERIAL FOR THE REMOVAL OF OIL
FROM OIL SPILLS**
EPB 1994-10-19 0507784/EP-B1 NDN- 080-0063-6608-9

**INVENTOR(S)- HERKENBERG, Wolf 37 Morningdew Road West Hill Scarborough Ontario
M1E 3X2 CA**

**PATENT ASSIGNEE(S)- HERKENBERG, Wolf 37 Morningdew Road West Hill Scarborough
Ontario M1E 3X2 CA DESG. COUNTRIES- BE, DE, FR, GB, IT, NL.**

PATENT NUMBER- 00507784/EP-B1

PATENT APPLICATION NUMBER- 91900007.5

DATE FILED- 1990-12-05; 1990-12-05

PUBLICATION DATE- 1994-10-19

PATENT PRIORITY INFO- 446761, 1989-12-06, US

**ATTORNEY, AGENT, OR FIRM- Asquith, Anthony, Anthony Asquith & Co 328 Leeds
Road, Scholes Leeds, LS15 4DD, GB**

INTERNATIONAL PATENT CLASS- E02B01504

PCT PUB. DATE- 1991-06-13

PUBLICATION- 1992-10-14; 1994-10-19, B1, Granted patent

FILING LANGUAGE- ENG

PROCEDURE LANGUAGE- ENG

LANGUAGE- ENG

EXEMPLARY CLAIMS- Apparatus for collecting oil from oil-contaminated water or land areas, characterised by the following structural combination: the apparatus includes at least one film or sheet of sorbent material; the film is thin and flexible; the film is suitable for being extended onto the oil-contaminated water surface or area to be protected; at least one of the two principal surfaces of the film is oleophilic and hydrophobic; the film includes many apertures therethrough; and the apertures in the film are suitable for admitting the passage of oil from one to the other of the said two principal surfaces.; Apparatus of claim 1, further characterised in that: the flexible film is paper; and the paper is coated on one side thereof with an oleophilic and hydrophobic finish.; Apparatus of claim 1, further characterised in that: the sorbent material has a specific gravity less than that of water; whereby, when applied to the surface of the oil-contaminated open water, the sorbent material remains afloat before and after sorption of oil to its full capacity.; Apparatus of claim 3, further characterised in that: the oleophilic and hydrophobic surface, when laterally extended in use, presents texture irregularities; and the irregularities are suitable for enhancing the degree of sorption of oil onto the surface.; Apparatus of claim 1, further characterised in that the apertures are formed by making many small pierces through the flexible film.; Apparatus of claim 1, further characterised in that the apertures are formed by making many small slits through the flexible film.; Apparatus of claim 1, further characterised in that the flexible film is composed essentially of an olefinic polymer.; Apparatus of claim 1, further characterised in that the flexible film is composed essentially of polyethylene.

DESIGNATED COUNTRY(S)- BE, DE, FR, GB, IT, NL .